



Contribution ID: 5

Type: **not specified**

Results and perspectives of forward physics in ATLAS

Tuesday, September 15, 2015 12:30 PM (25 minutes)

A review of the results of the ATLAS forward physics program will be given. This includes a complete set of proton-proton cross section measurements at $\sqrt{s} = 7\text{TeV}$, diffractive physics studies using rapidity gaps, forward jet production and energy flow as a function of pseudorapidity. The ATLAS future perspectives will also be discussed, focused on the phase 1 upgrade project AFP, underlying its complementarity with the existing ALFA detector in terms of acceptance for diffractive processes, and its potential for a wide forward physics program both at low and high luminosity.

Primary author: GIACOBBE, Benedetto (BO)

Presenter: GIACOBBE, Benedetto (BO)

Session Classification: Interplay between LHC and UHECR physics

Track Classification: Interplay between LHC and UHECR physics